

PART 1 - GENERAL

- 1.1 Measurement and Payment .1 The unit prices bid for the wood safety railings shall be full compensation for all work necessary and incidental including but not limited to the setting of posts, hardware, cutting, drilling, and installation of wood fencing and railings to the dimensions, lines, and grades indicated in the Drawings and as directed by the DR.
- .2 ~~The unit prices bid for the 600 mm high log rail and the 900 mm high log rail shall include, but not be limited to, the supply and delivery of the wood posts and rails, setting poles in post holes and backfilling, cutting and fitting, drilling holes, fastening, and all other associated work to complete the installation.~~
- ~~.3.2~~ The unit prices bid for the 1400 mm high safety railings, shall include, but not be limited to, supply and delivery of materials, setting poles in post holes and backfilling, cutting and fitting, drilling holes, fastening, and all other associated work to complete the installation.
- ~~.4.3~~ Measurement for payment for the safety railings, ~~and log rails~~ shall be linear metre along the top rail of the barriers installed and accepted by the DR.
- 1.2 References .1 Canadian Standards Association (CSA International)
- .1 CSA 080 Series 15, Wood Preservation.
- .2 CSA G164, Galvanizing irregular shapes.
- 1.3 Related Sections .1 Section 01 74 21 – Waste Management and Disposal.
- .2 Section 03 48-00 – Pre-cast Concrete Specialties.
- 1.4 Delivery, Storage and Handling .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Product Requirements and with manufacturers' written instructions.
- .2 Storage and Handling Requirements:
- .1 Store materials off ground and in dry location and in accordance with manufacturer's recommendation in clean, dry, well-ventilated area.
- .2 Store and protect wood from nicks, scratches, and blemishes.
- .3 Replace defective or damaged materials with new.
- .4 Exercise care during fabrication, transportation, and erection of wood products.
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**PART 2 - PRODUCTS**

- 2.1 Materials Supplied by Contractor
- ~~.1 150mm to 200mm diameter debarked log rails 2000mm long~~
  - ~~.2 150mm to 200mm diameter treated debarked log posts 1200mm and 1500mm long~~
  - ~~.3 150mm to 200mm diameter X 2500 mm log rails~~

**Wood Safety Rails**

- .1 The Contractor will supply the following lumber for the safety rails located above retaining walls and steep slopes:
  - .1 295 pieces 38mm X 140mm X 2450 mm wood railings.
  - .2 50 pieces 38mm X 140mm X 2600 mm wood railings.
  - .3 74 pieces 140mm X 140mm X 1500 mm wood posts.
- ~~.4.2~~ Galvanized steel nuts, bolts, washers, spiral spikes to CSA G164.
- ~~.5.3~~ The lengths of posts that will come into direct contact with the soil shall be treated with a non-toxic wood preservative and permitted to cure before returning

**PART 3 - EXECUTION**

- 3.1 Examination
    - .1 Verification of Conditions: verify conditions of ground surface to determine acceptability for product installation in accordance with manufacturers' written instructions.
    - .2 Inform DR of unacceptable conditions immediately upon discovery.
    - .3 Proceed with installation after unacceptable conditions have been remedied and after receipt of written approval to proceed from DR.
  - 3.2 Grading
    - .1 Remove debris and correct ground undulations along construction line to obtain a smooth uniform gradient.
  - 3.3 Installation
    - .1 Install members true to line, levels and elevations, square and plumb.
    - .2 Construct continuous members from pieces of longest practical length.
    - .3 Excavate post holes to dimensions shown on drawings. PVC sleeves for post holes at retaining walls are to be installed concurrent with wall construction.
    - .4 Space line posts a maximum of 2.4 m apart, measured parallel to the ground surface or as indicated on the drawings.
    - .5 Place posts in post holes, plumb and level for safety railings and fences and tamp approved native excavated material in 100 mm lifts all round to maintain pole in a plum position. Dispose of surplus excavated material. Supply additional material if backfill is not mounded 25 mm above the existing ground.
    - .6 Nail and/or bolt horizontal rails into place. Railing shall follow the profile of the trail for a continuous visually smooth line along the rails.
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- 3.4 Cleaning
- .1 Wipe soil from surfaces.
  - .2 Leave Work Area clean at the end of each day.
  - .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment.
  - .4 Develop Construction Waste Management Plan related to Work of this section and in accordance with Section 01 11 00 – General Instructions and Section 01 35 33 – Health and Safety Requirements.
  - .5 Packaging Waste Management: remove for and return of pallets, crates, padding, packaging materials in accordance with Section 01 11 00 – General Instructions and Section 01 35 33 – Health and Safety Requirements, and 01 35 43 – Environmental Procedures.
  - .6 Waste Management: separate waste materials for recycling in accordance with Section 01 11 00 – General Instructions.
  - .7 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
- 3.5 Protection
- .1 Protect installed products and components from damage during construction.
  - .2 Repair damage to adjacent works.

**END OF SECTION**

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